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(54) Title: SYSTEMS AND METHODS FOR WATER TREATMENT

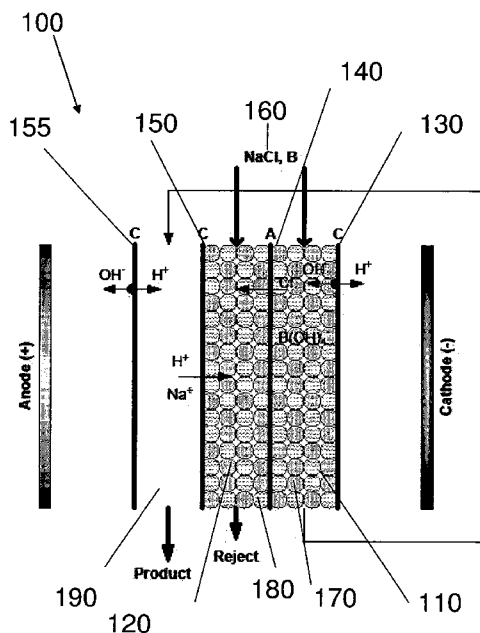


FIG. 1

(57) Abstract: Electrochemical devices and methods for water treatment are disclosed. An electrodeionization device (100) may include one or more compartments (110) containing an ionselective media, such as boron-selective resin (170). Cyclic adsorption of target ions and regeneration of the media in-situ is used to treat process water, and may be driven by the promotion of various pH conditions within the electrochemical device.



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